STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/505.328A
Source:	PCT
Date Processed by STIC:	4/28/06
•	

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PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
 Alexandria, VA 22314

Revised 01/10/06

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PCT

RAW SEQUENCE LISTING

DATE: 04/28/2006

PATENT APPLICATION: US/10/505,328A

TIME: 09:38:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF4\04282006\J505328A.raw

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2 <110> APPLICANT: Korea Advanced Institute of Science and Technology
      4 <120> TITLE OF INVENTION: CONSTRUCTION OF NOVEL STRAINS CONTAINING MINIMIZING
             GENOME BY Tn5-COUPLED Cre/loxP EXCISION SYSTEM
      7 <130> FILE REFERENCE: 02730.0020.PCUS00
      9 <140> CURRENT APPLICATION NUMBER: 10/505;328A
C--> 11 <141> CURRENT FILING DATE: 2004-08-23
     11 <150> PRIOR APPLICATION NUMBER: PCT/KR02/02033 -
                                                                               (pg.5) ~
     12 <151> PRIOR FILING DATE: 2002-10-31
     14 <150> PRIOR APPLICATION NUMBER: KR 10-2002-0009647
     15 <151> PRIOR FILING DATE: 2002-02-22
     17 <160> NUMBER OF SEQ ID NOS: 13
     19 <170> SOFTWARE: KopatentIn 1.71
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     22 <211> LENGTH: 2437
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Artificial Sequence
     26 <220> FEATURE:
     27 <223> OTHER INFORMATION: chemically synthesized TnKGloxP
     30 <400> SEQUENCE: 1
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     33 gotgtetett atacacatet caaccateat egatgaatte gageteggta ecegggttga
                                                                                      120
                                                                                      180
     35 actgeggate ttgeggeege aaaaattaaa aatgaagttt tgaeggtate gaaceecaga
                                                                                      240
     37 gtcccgctca gaagaactcg tcaagaaggc gatagaaggc gatgcgctgc gaatcgggag
     39 cggcgatace gtaaagcacg aggaagcggt cagcccatte geegecaage tetteagcaa
41 tatcaegggt agccaacget atgteetgat ageggteege caeacccage eggecacagt
                                                                                      300
                                                                                      360
     43 cgatgaatec agaaaagegg ccattttcca ccatgatatt eggeaageag geategeeat
                                                                                      420
     45 gggtcacgac gagatectog cogtegggca teegegeett gageetggeg aacagttegg
                                                                                      480
                                                                                      540
     47 ctggcgcgag cccctgatgc tettegteca gateatectg atcgacaaga ccggctteca
     49 tecgagtacg tgetegeteg atgegatgtt tegettggtg gtegaatggg caggtageeg
                                                                                      600
                                                                                      660
     51 gatcaagcgt atgcagccgc cgcattgcat cagccatgat ggatactttc tcggcaggag
     53 caaggtgaga tgacaggaga teetgeeeeg geacttegee eaatageage cagteeette
     55 ccgcttcagt gacaacgtcg agcacagctg cgcaaggaac gcccgtcgtg gccagccacg
                                                                                      780
                                                                                      840
     57 atagecgege tgeetegtet tggagtteat teagggeace ggacaggteg gtettgacaa
     59 aaagaaccgg gegeeettge getgacagee ggaacaegge ggeatcagag cageegattg 61 tetgttgtge ecagteatag ecgaatagee tetecaceca ageggeegga gaacetgegt
                                                                                      900
                                                                                      960
                                                                                     1020
     63 gcaatcoatc ttgttcaatc atgcgaaacg atcetcatcc tgtetettga tecactagat
     65 tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag
                                                                                     1080
     67 aaaaataaac aaataggggt teegegeaca ttteecegaa aagtgeeace tgeategatg
                                                                                     1140
     69 aattgateeg aagtteetat tetetagaaa gtataggaae ttegaattgt egacaagett
                                                                                     1200
     71 garctggctt atcgaaatta atacgactca ctatagggag accggaattc attatttgta
                                                                                     1260
     73 gageteatee atgecatgtg taateeeage ageagttaca aacteaagaa ggaceatgtg
                                                                                     1320
     75 gtcacgcttt tcgttgggat ctttcgaaag ggcagattgt gtcgacaggt aatggttgtc
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                                                                                     1440
     77 tggtaaaagg acagggccat cgccaattgg agtattttgt tgataatggt ctgctagttg
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RAW SEQUENCE LISTING DATE: 04/28/2006 PATENT APPLICATION: US/10/505,328A TIME: 09:38:57

Input Set: A:\Sequence.txt
Output Set: N:\CRF4\04282006\J505328A.raw

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81 titigtetgee grgatgiata cattgitgiga gitatagitg tactegagit tgtgteegag
83 aatgitteca tettetttaa aateaatace tittaaeteg atacgattaa caagggtate
                                                                             1620
                                                                             1680
85 accttcaaac ttgacttcag cacgcgtctt gtagttcccg tcatctttga aagatatagt
                                                                             1740
87 gcgttcctgt acataacctt cgggcatggc actcttgaaa aagtcatgcc gtttcatatg
89 atccggataa cgggaaaagc attgaacacc ataagagaaa gtagtgacaa gtgttggcca
                                                                             1800
91 tggaacaggt agtittccag tagtgcaaat aaatttaagg gtaagttttc cgtatgttgc
                                                                             1860
93 atcacettca coetetecae tgacagaaaa tttgtgecca ttaacatcae catetaatte
                                                                             1920
95 aacaagaatt gggacaacte cagtgaaaag ttotteteet ttactcattt tttctaccgg
                                                                             1980
97 taccegggga teetetagag tegacetgea ggeatgeaag ettggegtaa teatggteat
                                                                             2040
                                                                             2100
99 agetgittee tgtgtgaaat tgttateege teacaattee acacaacata egageeggaa
101 gcataaagtg taaagcctgg ggtgcctaat gagtgagcta actcacatta attgcgttgc
                                                                              2160
                                                                              2220
103 getcactgcc cgctttccag tegggaaatc caagggegaa ttegageteg gtacegggec
                                                                              2280
105 ccccctcgag ggacctaata acttcgtata gcatacatta tacgaagtta tattaagggt
107 teeggateet etagagtaga eetetagagt egacetgeag geatgeaage tteagggttg
                                                                              2340
109 agatgtgtat aagagacage tgcattaatg aateggecaa egegeggga gaggeggttt
                                                                               2400
                                                                               2437
111 gcgtattggg cgctettccg cttectcgct cactgac
114 <210> SEQ ID NO: 2
115 <211> LENGTH: 1511
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: chemically synthesized TnCloxP
123 <400> SEQUENCE: 2
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126 getgtetett atacacatet caaccateat egatgaatte gageteggta eegeaaaaat
                                                                                120
128 taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggte tgacagttac
                                                                                180
130 caatgettaa teagtgagge accaataact geettaaaaa aattaegeee egeeetgeea 132 etcategeag taetgttgta atteattaag cattetgeeg acatggaage catcacagae
                                                                                240
                                                                                300
134 ggcatgatga acctgaatcg ccagcggcat cagcaccttg tcgccttgcg tataatattt
                                                                                420
136 gcccatggtg aaaacggggg cgaagaagtt gtccatattg gccacgttta aatcaaaact
                                                                                480
138 ggtgaaactc acccagggat tggctgagac gaaaaacata ttctcaataa accctttagg
140 gaaataggec aggttttcac cgtaacacgc cacatettgc gaatatatgt gtagaaactg
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142 coggaaateg togtggtatt cactocagag cgatgaaaac gtttcagttt getcatggaa
                                                                                600
144 aacggtgtaa caagggtgaa cactatccca tatcaccagc tcaccgtctt tcattgccat
146 acggaatttc ggatgagcat tcatcaggcg ggcaagaatg tgaataaagg ccggataaaa
                                                                                720
                                                                                780
148 cttgtgctta ttttcttta cggtctttaa aaaggccgta atatccagct gaacggtctg
                                                                                840
150 gttataggta cattgagcaa ctgactgaaa tgcctcaaaa tgttctttac gatgccattg
152 ggatatatea acggtggtat atccagtgat ttttttctcc attttagett cettagetec
                                                                                900
154 tgaaaatete gataacteaa aaaatacgee eggtagtgat ettattteat tatggtgaaa
                                                                                960
156 gttggaacot cttacgtgcc gatcaacgtc tcattttcgc caaaagttgg cccagggctt
                                                                               1020
158 cocggtatea acagggacae caggatttat ttattetgcg aagtgatett cegteacagg
                                                                               1080
160 tatttatteg gegeamagtg egtegggtga tgetgeemac tractgattt agtgtatgat
                                                                               1140
162 ggtgtttttg aggtgeteca gtggettetg tttetateag categatgaa ttgateegaa
                                                                               1200
164 gttoctatto totagaaagt ataggaactt cgaattgteg acaagettga totggettat
166 cgaaattaat acgaeteact atagggagae eggaattega geteggtace gggeeeceee
                                                                               1320
168 togagggace taataactte gtatagcata cattatacga agttatatta agateeteta
                                                                               1380
170 gagtegacet geaggeatge aagetteagg gttgagatgt gtataagaga eagetgeatt
                                                                               1440
172 aatgaategg ccaaegegeg gggagaggeg gtttgegtat tgggegetet teegetteet
                                                                               1500
```

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RAW SEQUENCE LISTING DATE: 04/28/2006 PATENT APPLICATION: US/10/505,328A TIME: 09:38:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF4\04282006\J505328A.raw

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174 cgctcactga c
                                                                              1511
 177 <210> SEQ ID NO: 3
 178 <211> LENGTH: 19
 179 <212> TYPE: DNA
 180 <213> ORGANISM: Artificial Sequence
 182 <220> FEATURE:
 183 <223> OTHER INFORMATION: chemically synthesized OE sequence
. 186 <400> SEQUENCE: 3
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 187 ctgtctctta tacacatct
 190 <210> SEQ ID NO: 4
 191 <211> LENGTH: 34
 192 <212> TYPE: DNA
 193 <213> ORGANISM: Artificial Sequence
 195 <220> FEATURE:
 196 <223> OTHER INFORMATION: chemically synthesized loxP site
 199 <400> SEQUENCE: 4
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 200 ataacttcgt atagcataca ttatacgaag ttat
 203 <210> SEQ ID NO: 5
 204 <211> LENGTH: 996
 205 <212> TYPE: DNA
 206 <213> ORGANISM: Artificial Sequence
 208 <220> FEATURE:
 209 <223> OTHER INFORMATION: chemically synthesized KmR gene
 212 <400> SEQUENCE: 5
 213 gcaaaaatta aaaatgaagt tttgacggta tcgaacccca gagtcccgct cagaagaact
 215 cgtcaagaag gogatagaag gogatgogot gogaatoggg agoggogata cogtaaagoa
                                                                                120
 217 cgaggaagcg gtcagcccat tcgccgccaa gctcttcagc aatatcacgg gtagccaacg
                                                                                180
 219 ctatgtectg atageggtee geoacaecea geeggeeaca gtegatgaat eeagaaaage
                                                                                240
 221 ggccattttc caccatgata ttcggcaagc aggcatcgcc atgggtcacg acgagatcct
                                                                                300
                                                                                360
 223 egecgteggg eatcogegee ttgageetgg egaacagtte ggetggegeg ageceetgat
 225 getettegte cagateatee tgategacaa gaceggette cateegagta egtgeteget
                                                                                420
                                                                                480
 227 cgatgcgatg tttcgcttgg tggtcgaatg ggcaggtagc cggatcaagc gtatgcagcc
                                                                                540
 229 gccgcattgc atcagccatg atggatactt tetcggcagg agcaaggtga gatgacagga
                                                                                600
 231 gatcotgeco oggeacting occastages goosgtoot tecogottos gtgacasegt
                                                                                660
 233 cgagcacago tgegcaagga acgeccgteg tggccagcca cgatagcege gctgectegt
 235 cttggagttc attcagggca ccggacaggt cggtcttgac aaaaagaacc gggcgcccct
                                                                                720
 237 gegetgacag ceggaacacg geggeateag ageageegat tgtetgttgt geceagteat
                                                                                780
                                                                                840
 239 agcognatag cototocaco caageggoog gagaacetgo gtgcaatoca tottgttcaa
 241 tratgegaaa egatorreat cetgtetett gateractag attattgaag catttateag
                                                                                900
                                                                                960
 243 ggrtattgte teatgagegg atacatattt gaatgtattt agaaaaataa acaaataggg
                                                                                996
 245 gttccgcgca catttccccg aaaagtgcca cctgca
 248 <210> SEQ ID NO: 6
 249 <211> LENGTH: 947
 250 <212> TYPE: DNA
 251 <213> ORGANISM: Artificial Sequence
 253 <220> FRATURE:
 254 <223> OTHER INFORMATION: chemically synthesized GFF gene
 257 <400> SEQUENCE: 6
 258 attatttgta gageteatee atgecatgtg taateeeage ageagttaca aacteaagaa
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RAW SEQUENCE LISTING
                                                        DATE: 04/28/2006
               PATENT APPLICATION: US/10/505,328A
                                                         TIME: 09:38:57
               Input Set : A:\Sequence.txt
               Output Set: N:\CRF4\04282006\J505328A.raw
260 ggaccatgtg gtcacgcttt tegttgggat etttegaaag ggcagattgt gtcgacaggt
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262 aatggttgtc tggtaaaagg acagggccat cgccaattgg agtaitttgt tgataatggt
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264 cigctagitg aacggateca tetteaatgt igtggcgaat titgaagita getitgatte
                                                                             240
266 cattettttg tttgtetgee gtgatgtata cattgtgtga gttatagttg tactegagtt
                                                                             300
268 tgtgtccgag aatgtttcca tcttctttaa aatcaatacc ttttaactcg atacgattaa
                                                                             360
270 caagggtate acctteaaac ttgactteag caegegtett gtagtteeeg teaterttga
                                                                             420
272 aagatatagt gegtteetgt acataacett egggeatgge actettgaaa aagteatgee
                                                                             480
274 gtttcatatg atccggataa cgggaaaagc attgaacacc ataagagaaa gtagtgacaa
                                                                             540
276 gtgttggcca tggaacaggt agttttccag tagtgcaaat aaatttaagg gtaagttttc
278 cgtatgttgc atcaccttca ccctctccac tgacagaaaa tttgtgccca ttaacatcac
                                                                             660
280 catctaatte aacaagaatt gggacaacte cagtgaaaag ttetteteet ttactcattt
                                                                             720
282 tttctaccgg tacccgggga tectotagag tegacctgca ggcatgcaag cttggcgtaa
                                                                             780
284 tratggtrat agrightine tgtgtgaaat tgttatroge tracaatter acacaara
                                                                             840
286 cgagccggaa gcataaagtg taaagcctgg ggtgcctaat gagtgagcta actcacatta
                                                                             900
                                                                             947
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292 <211> LENGTH: 1069
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: chemically synthesized CmR gene
300 <400> SEQUENCE: 7
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                                                                              120
303 acagttacca atgettaate agtgaggeae caataactge ettaasaaaa ttaegeeeeg
                                                                             180
305 cectgocact categoagta etgttgtaat toattaagca ttetgccgac atggaagcca
307 tcacagacgg catgatgaac ctgaatcgcc agcggcatca gcaccttgtc gccttgcgta
                                                                              300
309 taatatttqc ccatqqtgaa aacgggggcg aagaagttgt ccatattggc cacgtttaaa
311 toannactgg tgaaactcac coagggattg gctgagacga annacatatt ctcaatanac
                                                                              360
313 cotttaggga aataggccag gttttcaccg taacacgcca catottgcga atatatgtgt
315 agaaactgcc ggaaatcgtc gtggtattca ctccagagcg atgaaaacgt ttcagtttgc
                                                                              480
317 tcatggamam eggtgtaaca agggtgamem ctatecemta temecagete acceptette
                                                                              540
                                                                              600
319 attgccatac ggaatttcgg atgagcattc atcaggcggg caagaatgtg aataaaggcc
321 ggataaaact tgtgcttatt tttctttacg gtctttaaaa aggccgtaat atccagctga
                                                                              660
323 acggretggt tataggtaca ttgagcaact gactgaaatg ceteaaaatg ttetttacga
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325 tgccattggg atatatcaac ggtggtatat ccagtgattt ttttctccat tttagcttcc
                                                                              780
327 ttagetcetg aaaatetega taactcaaaa aatacgeeeg gtagtgatet tattteatta
                                                                              B40
329 tggtgaaagt tggaacctot tacgtgccga tcaacgtotc attitcgcca aaagttggcc
                                                                              900
331 cagggettee eggtateaac agggacacca ggatttattt attetgegaa gtgatettee
                                                                              960
                                                                             1020
333 gtcacaggta tttattcggc gcaaagtgcg tcgggtgatg ctgccaactt actgatttag
335 tgtatgatgg tgtttttgag gtgctccagt ggcttctgtt tctatcagc
                                                                             1069
338 <210> SEQ ID NO: 8
339 <211> LENGTH: 19
340 <212> TYPE: DNA
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: chemically synthesized primer-pMODFP-1
347 <400> SEQUENCE: 8
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19

348 attraggetg cgcaactgt 351 <210> SEQ ID NO: 9

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```
DATE: 04/28/2006
                    RAW SEQUENCE LISTING
                    PATENT APPLICATION: US/10/505,328A
                                                              TIME: 09:38:57
                    Input Set : A:\Sequence.txt
                    Output Set: N:\CRF4\04282006\J505328A.raw
    352 <211> LENGTH: 22
    353 <212> TYPE: DNA
    354 <213> ORGANISM: Artificial Sequence
    356 <220> FEATURE:
    357 <223> OTHER INFORMATION: chemically synthesized primer-pMODRP-1
    360 <400> SEQUENCE: 9
                                                                                    22
    361 teagtgageg aggaagegga ag
    364 <210> SEQ ID NO: 10
    365 <211> LENGTH: 28
    366 <212> TYPE: DNA
    367 <213 > ORGANISM: Artificial Sequence
    369 <220> FEATURE:
    370 <223> OTHER INFORMATION: chemically synthesized primer-Tn5Ext
    373 <400> SEQUENCE: 10
                                                                                    28
    374 agcatacatt atacgaagtt atattaag
    377 <210> SBQ ID NO: 11
    378 <211> LENGTH: 35
    379 <212> TYPE: DNA
    380 <213> ORGANISM: Artificial Sequence
    383 <223> OTHER INFORMATION: chemically synthesized primer-Arb1
                                                                      See error
explanation
on page
    386 <400> SEQUENCE: 11
W--> 387 ttgagcgata gacgtacgat (nunnnnnnn) gatat
    390 <210> SEQ ID NO: 12
     391 <211> LENGTH: 20
    392 <212> TYPE: DNA
    393 <213> ORGANISM: Artificial Sequence
    395 <220> FEATURE:
     396 <223> OTHER INFORMATION: chemically synthesized primer-Arb2
     399 <400> SEQUENCE: 12
     400 ttgagcgata gacgtacgat
     403 <210> SEQ ID NO: 13
     404 <211> LENGTH: 25
     405 <212> TYPE: DNA
     406 <213> ORGANISM: Artificial Sequence
     408 <220> FEATURE:
     409 <223> OTHER INFORMATION: chemically synthesized primer-Tn5Int
     412 <400> SEQUENCE: 13
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     413 tegacetgea ggeatgeaag ettea
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/505,328A

DATE: 04/28/2006 TIME: 09:38:58

Input Set : A:\Sequence.txt

Output Set: N:\CRP4\04282006\J505328A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seg#:11; N Pos. 61,22,23,24,25,26,27,28,29,30

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VARIABLE LOCATION SUMMARY PATENT APPLICATION: US/10/505,328A DATE: 04/28/2006 TIME: 09:38:58

Input Set : A:\Sequence.txt

Output Set: N:\CRB4\04282006\J505328A/raw

Use of n's or Xaa's (NEW RULES): Use of n's and/or Maa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:11; N Pos. 21,22,23,24,25,26,27,28,29,30

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/505,328A

DATE: 04/28/2006 TIME: 09:38:58

Input Set : A:\Sequence.txt

Output Set: N:\CRF4\04282006\J505328A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:387 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:11 L:387 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:11 L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0